

Mainsail: 7000216 Peter-1 mainsail.des

Design Info

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Design File:

F:\Dropbox\Dropbox-20221019\Dropbox20221213\Dropbox\Fareast Sails\2023 Order\Need Confrim Order\7000216 Pe

Initial Design Date: 21/2/2023

Boat:

Client:

Comments:
tack angle 89 degree

Design Data

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Main

Measurements

Luff geodesic:	14.173m
Leech geodesic:	14.818m
Foot geodesic:	4.593m
Head geodesic:	0.115m
Upper width (MUW):	0.809m
Three-quarter width (MTW):	1.489m
Half width (MHW):	2.692m
Quarter width (MQW):	3.698m
Foot median:	14.485m
ORC Mainsail area:	36.270m?
Surface area:	36.929m?
Clew height:	-0.115m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.901%	1.214m	0.175m	73.497?	11.462m	11.959m	Full
61.417%	2.203m	0.226m	73.497?	8.700m	9.079m	Full
41.680%	3.069m	0.198m	73.497?	5.902m	6.161m	Full
20.897%	3.860m	0.113m	73.497?	2.956m	3.089m	Full

Reefing Points

1, Luff: 1.913m ; Leech: 1.988m ; Offset: -0.070m ; Number Eyelets: 3
 2, Luff: 3.926m ; Leech: 4.075m ; Offset: -0.070m ; Number Eyelets: 3
 3, Luff: 5.669m ; Leech: 5.882m ; Offset: -0.070m ; Number Eyelets: 2

Draft Stripes

1, Luff: 4.677m ; Leech: 4.795m ;
 2, Luff: 9.354m ; Leech: 9.685m ;

Luff Slides

1, Position: 0.849m
 2, Position: 1.705m
 3, Position: 3.735m
 4, Position: 4.920m
 5, Position: 6.834m
 6, Position: 7.767m
 7, Position: 9.620m
 8, Position: 10.541m
 9, Position: 12.365m
 10, Position: 13.269m

Luff Curve

		Fanned Luff (@ 5.00% [0.229m])	Before BSeam
14.173m,	0.000m	100% (14.173m) :	0.000m
12.407m,	-0.018m	90% (12.756m) :	0.038m
10.630m,	-0.030m	80% (11.339m) :	0.075m
8.848m,	-0.037m	70% (9.921m) :	0.105m
7.086m,	-0.038m	60% (8.504m) :	0.122m
5.281m,	-0.035m	50% (7.087m) :	0.126m
3.543m,	-0.028m	40% (5.669m) :	0.115m
1.766m,	-0.016m	30% (4.252m) :	0.093m
0.000m,	0.000m	20% (2.835m) :	0.064m
		10% (1.417m) :	0.031m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.016m	0.038m
Zone: 1/b	0.038m	0.016m	0.038m
Zone: 2/a	0.038m	0.016m	0.038m
Zone: 2/b	0.038m	0.016m	0.038m
Zone: 3	0.038m	0.016m	0.038m
Zone: 4	0.038m	0.016m	0.038m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	7.91
Radial/Vertical	119.49
Bi-Radial Split	7.51

Materials

Material	Area (m ²)	Panels
Material 1	37.00	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1b\1, 1b\2, 1b\3, 1b\4 1b\5, 1b\6, 1b\7, 1b\8, 1b\9 1b\10, 1b\11, 2\1, 2\2, 2\3 2\4, 2b\1, 2b\2, 2b\3, 2b\4 3\1, 3\2, 3\3, 3\4, 3\5 3\6, 4\1, 4\2, 4\3, 4\4 4\5

